

FIG. 1

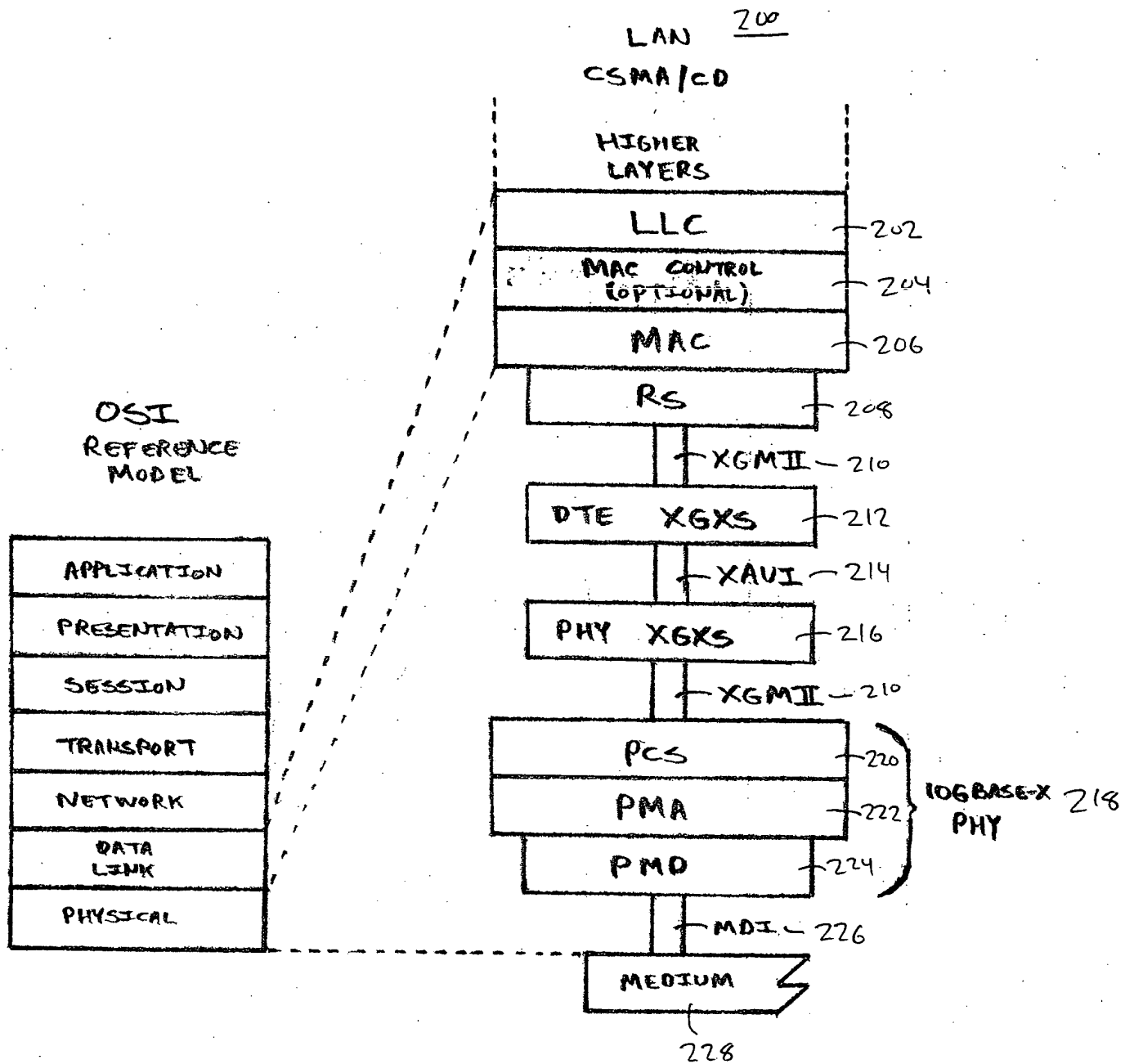


FIG. 2

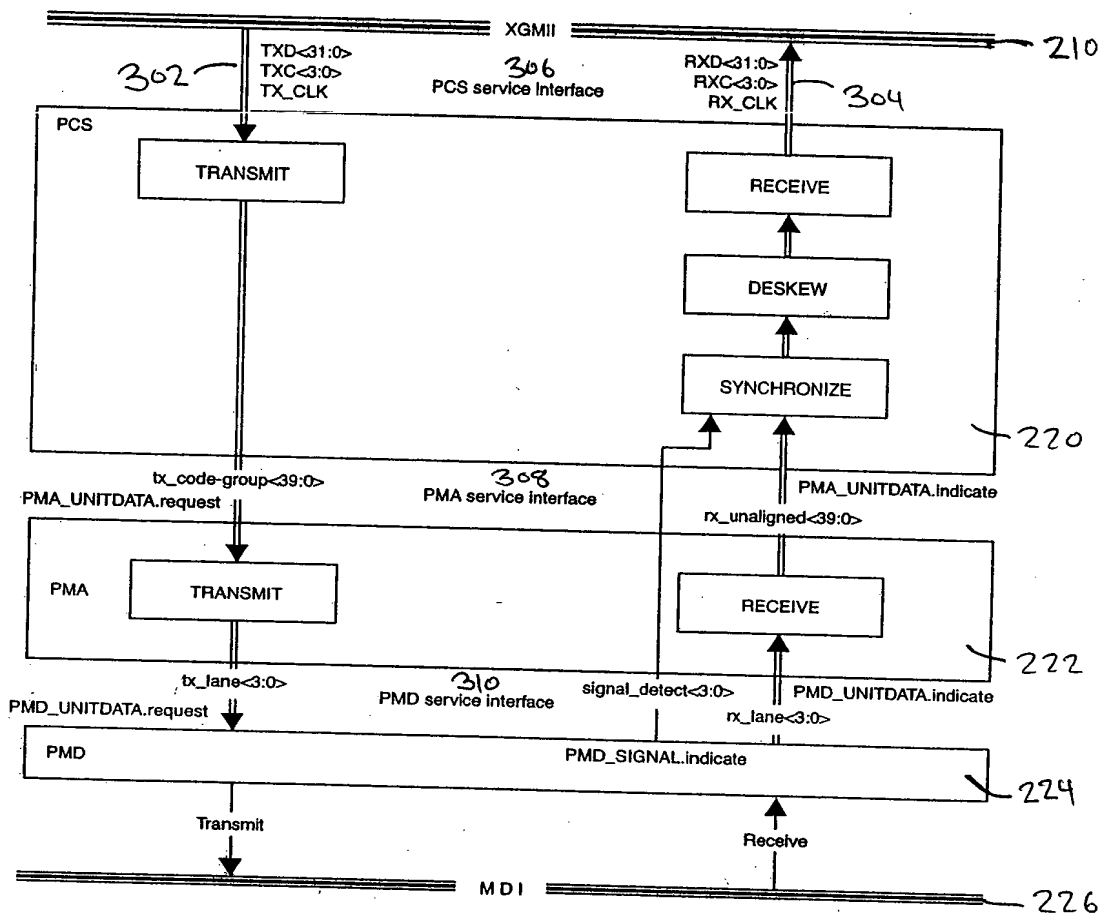


FIG. 3

400

Lane 0 only shown

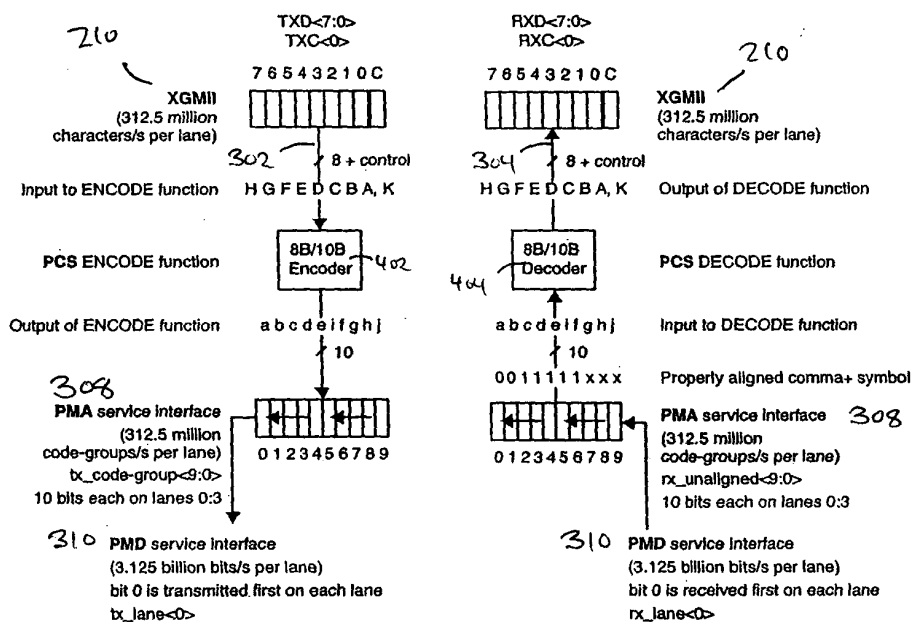


FIG. 4

XGMII TXC	XGMII TXD	PCS code-group	Description
0	00 through FF	Dxx.y	Normal data transmission
1	07	K28.0 or K28.3 or K28.5	Idle in
1	07	K28.5	Idle in   T
1	9C	K28.4	Sequence
1	FB	K27.7	Start
1	FD	K29.7	Terminate
1	FE	K30.7	Error
1	Other value in Table 36-2	See Table 36-2	Reserved XGMII character
1	Any other value	K30.7	Invalid XGMII character

NOTE—Values in TXD column are in hexadecimal.

Table 36-2—Valid special code groups

Code Group Name	Code Value	Code Bit	Current RD	Current RD	Notes
K28.0	00	0000 0000	0000 0000	0000 0000	1
K28.1	01	0000 0001	0000 0001	0000 0001	1
K28.2	02	0000 0010	0000 0010	0000 0010	1
K28.3	03	0000 0011	0000 0011	0000 0011	1
K28.4	04	0000 0100	0000 0100	0000 0100	1
K28.5	05	0000 0101	0000 0101	0000 0101	1
K28.6	06	0000 0110	0000 0110	0000 0110	1
K28.7	07	0000 0111	0000 0111	0000 0111	1
K28.8	08	0000 1000	0000 1000	0000 1000	1
K28.9	09	0000 1001	0000 1001	0000 1001	1
K28.10	0A	0000 1010	0000 1010	0000 1010	1
K28.11	0B	0000 1011	0000 1011	0000 1011	1
K28.12	0C	0000 1100	0000 1100	0000 1100	1
K28.13	0D	0000 1101	0000 1101	0000 1101	1
K28.14	0E	0000 1110	0000 1110	0000 1110	1
K28.15	0F	0000 1111	0000 1111	0000 1111	1
K28.16	10	0001 0000	0001 0000	0001 0000	1
K28.17	11	0001 0001	0001 0001	0001 0001	1
K28.18	12	0001 0010	0001 0010	0001 0010	1
K28.19	13	0001 0011	0001 0011	0001 0011	1
K28.20	14	0001 0100	0001 0100	0001 0100	1
K28.21	15	0001 0101	0001 0101	0001 0101	1
K28.22	16	0001 0110	0001 0110	0001 0110	1
K28.23	17	0001 0111	0001 0111	0001 0111	1
K28.24	18	0001 1000	0001 1000	0001 1000	1
K28.25	19	0001 1001	0001 1001	0001 1001	1
K28.26	1A	0001 1010	0001 1010	0001 1010	1
K28.27	1B	0001 1011	0001 1011	0001 1011	1
K28.28	1C	0001 1100	0001 1100	0001 1100	1
K28.29	1D	0001 1101	0001 1101	0001 1101	1
K28.30	1E	0001 1110	0001 1110	0001 1110	1
K28.31	1F	0001 1111	0001 1111	0001 1111	1

NOTE—Values in TXD column are in hexadecimal.

FIG. 5

Code	Ordered_Set	Number of code-groups	Encoding
I	Idle		Substitute for XGMII Idle
K	Sync column	4	/K28.5/K28.5/K28.5/K28.5/
R	Skip column	4	/K28.0/K28.0/K28.0/K28.0/
A	Align column	4	/K28.3/K28.3/K28.3/K28.3/
	<b>Encapsulation</b>		
S	Start column	4	/K27.7/Dx.y/Dx.y/Dx.y/ <sup>a</sup>
T	Terminate column	4	Terminate code-group in any lane
T <sub>0</sub>	Terminate in Lane 0	4	/K29.7/K28.5/K28.5/K28.5/
T <sub>1</sub>	Terminate in Lane 1	4	/Dx.y/K29.7/K28.5/K28.5/ <sup>a</sup>
T <sub>2</sub>	Terminate in Lane 2	4	/Dx.y/Dx.y/K29.7/K28.5/ <sup>a</sup>
T <sub>3</sub>	Terminate in Lane 3	4	/Dx.y/Dx.y/Dx.y/K29.7/ <sup>a</sup>
	<b>Control</b>		
/E/	Error code-group	1	/K30.7/
	<b>Link Status</b>		
Q	Sequence ordered_set	4	/K28.4/Dx.y/Dx.y/Dx.y/ <sup>a</sup>
LF	Local Fault signal	4	/K28.4/D0.0/D0.0/D1.0/
RF	Remote Fault signal	4	/K28.4/D0.0/D0.0/D2.0/
Qrsvd	Reserved	4	LF   and    RF
	<b>Reserved</b>		
Fsig	Signal ordered_set	4	/K28.2/Dx.y/Dx.y/Dx.y/ <sup>a,b</sup>
<sup>a</sup> /Dx.y/ indicates any data code-group.			
<sup>b</sup> Reserved for INCITS T11.			

FIG. 6

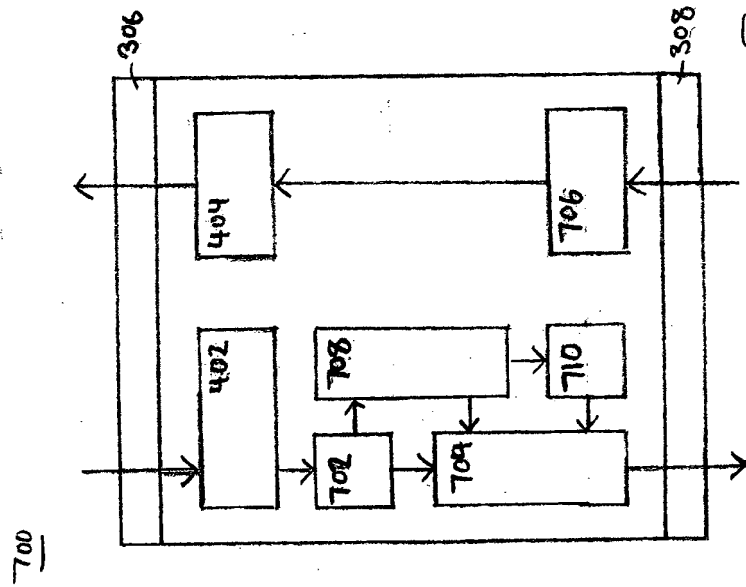


FIG. 7

FIG. 8A

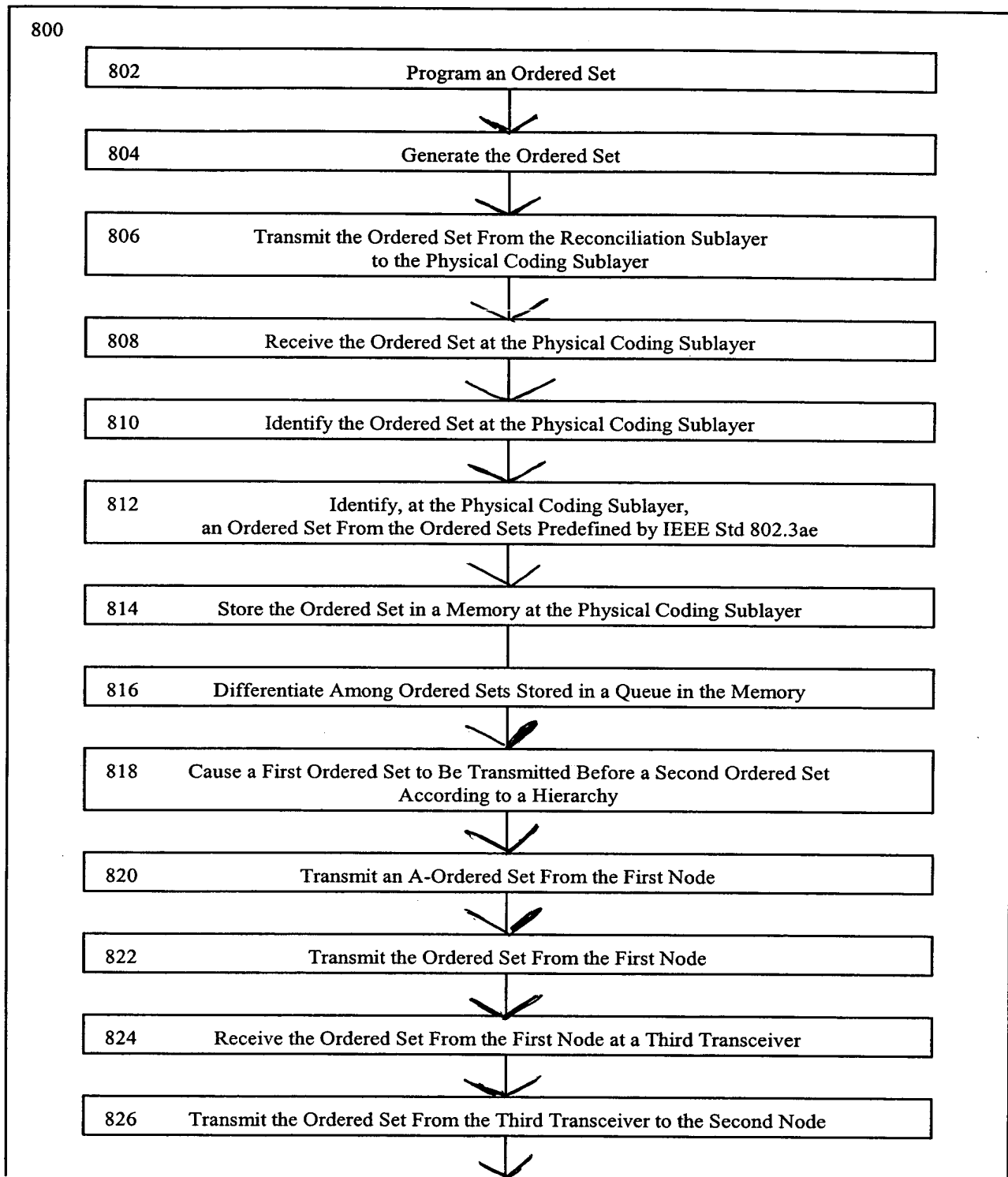




FIG. 8B

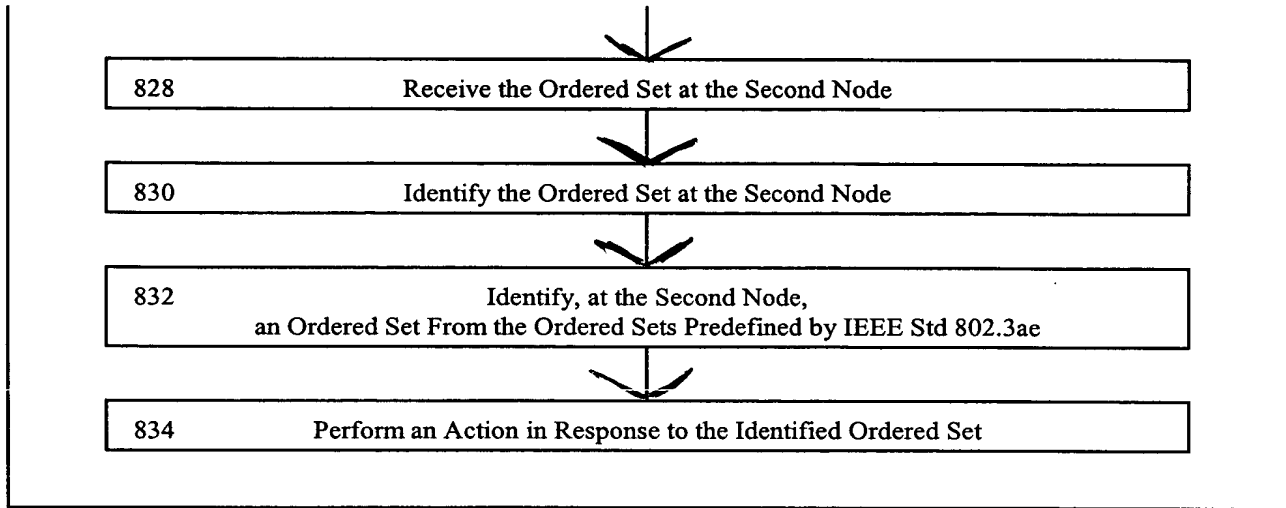


FIG. 9

